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The Industrious Hen

December, 1917

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THE Industrious Hen

Absorbing Poultry Ideas, Louisville, Ky.; Practical Poultry, Birmingham, Ala.; The Poultry Times, Norfolk, Va.; Southern Poultry Magazine, Nashville, Tenn.; The Poultry News, Bustleton, Pa.; Tennessee Poultry Journal, Lebanon, Tenn.; The National Poultry Breeder, Owensboro, Ky.; Everybody's Poultry Journal, Nashville, Tenn.; The Leghorn Journal, Appomattox, Va.

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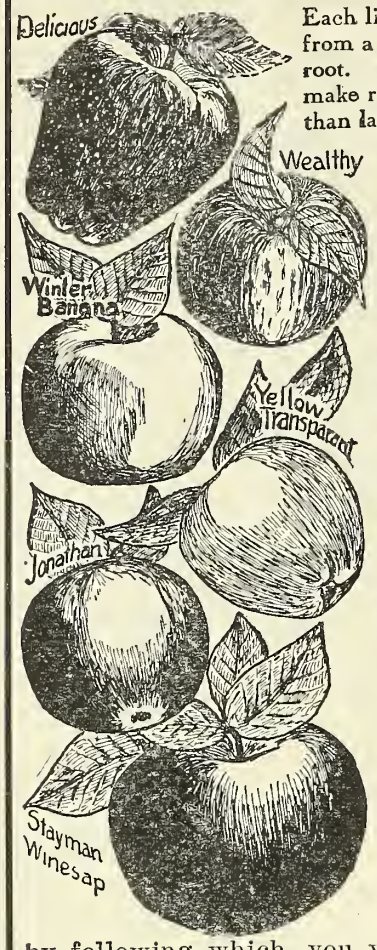

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FOR SALE Seven 600-egg Buckeye incubators. Also small machines of other makes. Several Hall, Candee and Blue Hen Mammoths. Write us about your requirements.

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For Sale—40-acre Poultry Truck Farm. A. J. Lawson, owner, Cleveland, Tenn. 12-1t

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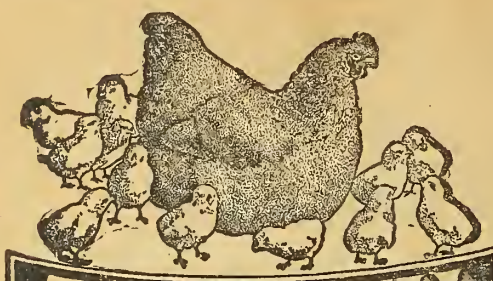
Haller's Pet Shop, 103 W. Mkt. St., Louisville, Ky.



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Disinfects Hen-houses Incubators, Brooders. CURES Roup, Scaley Leg, Canker, Chicken Pox, Cholera. PREVENTS White Diarrhoea. Dip eggs before putting them in the incubator to insure greater hatching returns and more chicks. At all dealers, or send to us.

Small Can 30 Cents; Quart 60 Cents; Half Gallon $1.00; Gallon $1.75. All Postpaid to Your Door.

Zenoleum Lice Powder

"The best in all the world"

Big Package—Postpaid 35 Cts.

Send for interesting "Bulletins" telling how to prevent disease, cure sick birds and increase your poultry profits.

Zenner Disinfectant Co.

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NO CHANGE

in price of the Magic Egg Tester. The same price when scratch feed cost $1.00 per hundred. Every egg saved is an egg sold. Save all eggs for hatching by first testing with a Magic Egg Tester. We started the sale of this Tester in Tennessee several years ago, and now send them anywhere in the United States by Parcel Post, $2.00 each. You get its benefits quickly if you order now.

Otto Schwill & Co.

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Get Poultry $ $ I'll Show You How

I will *guarantee* to give you a thorough, practical training in poultry keeping in your spare time at your own home.

I will teach *you* to make *poultry pay big.* No freak ideas or "systems"—just solid sense. *If you are not satisfied, it costs you nothing.*

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FERRIS LEGHORNS LAY WINTER EGGS

For 18 years Ferris' White Leghorns have been bred to lay more eggs at all seasons than ordinary hens, and to lay particularly well in winter when eggs are highest. We do not breed from hens that are not good winter layers. We can't afford to, for with one of the largest poultry farms in the country we must have winter eggs to make it pay.

Thousands of poultry keepers in all parts of the country are having unusual success with Ferris stock; hundreds of customers in Canada also, and we have made successful shipments to Scotland, Japan, Australia, Nicaragua, Alaska, Philippine Islands, Bermuda, Cuba and Mexico. We guarantee safe arrival anywhere,

All stock is shipped on approval. You can return within three days any birds not satisfactory and money will be refunded. We replace free any that die or get out of condition within 30 days. We also ship C. O. D. if desired.

We are now shipping eggs at the prices quoted below. All infertiles replaced free. Chicks after March 1st. Safe arrival guaranteed. Orders booked now.

We have three grades of laying stock. Stock from our heaviest laying strain, with trapnested records of 230 to 264 eggs, will cost as follows:

Early Hatched Cockerels, $10 each, $9 each for 10 or more. Yearling hens or early pullets, $5 each, 1 male, 2 females, $20; 1 male, 4 females, $30; 1 male, 8 females, $45; 1 male, 12 females, $60; 7 males, 100 females, $428. **Eggs,** $5 for 15, $25 for 100, $200 for 1000. **Chicks,** 10 for $6, 100 for $50, 1000 for $400.

Stock from 200 to 230 Egg Strain, the kind we recommend for breeding and laying where large flocks are required: Early hatched cockerels $6 each, $5 each for 10 or more. Early pullets or yearling hens, $3 each; 4 females, 1 male, $18; 12 females, 1 male, $40; 100 females, 7 males, $285; 100 females without males, $250. **Eggs,** $2.75 per setting, $15 per 100, $125 per 1000. **Chicks,** 10 chicks $4; 100 chicks $30; 1000 chicks $250.

Utility Stock for Laying and Breeding. Not bred from trapnested stock, but from stock that we guarantee to be better than the average. Cockerels $4 each, $3.50 each for 10 or more. Hens $2 each, $175 per 100. Four hens, 1 cockerel, $12: 12 hens, 1 cockerel, $27. **Eggs,** 15 for $2, 100 for $10, 1000 for $90. **Chicks,** 10 for $2.50. 100 for $20, 1000 for $185.

THIS FREE 40-PAGE CATALOG gives more information than is possible in this ad. Contains photos showing 35 acres of White Leghorns; describes our methods of feed and care; how we improve laying qualities; list of winnings at 20 big shows; many letters from customers; prices of exhibition, breeding and laying stock, eggs for hatching and day-old chicks. Even if you are not now in the market for stock we will be glad to send you a copy. Mail postal now while you have the matter in mind.

GEORGE B. FERRIS 922 UNION AVE. GRAND RAPIDS, MICH.

THE
Industrious Hen

VOL. XIV. LOUISVILLE, KY., DECEMBER, 1917 No. 6

LOWER PRICES OF POULTRY FEED REASONABLY ASSURED.

Keep all the Breeding Birds You Possibly Can—There Will be a Great Demand for Both Stock and Eggs—Keep Them for Patriotic Reasons if no Other—Help Win the War—Prof. F. H. Stoneburn, Special Representative to Washington, makes a Report.

AT A meeting of the Pennsylvania State Poultry Association, held at Philadelphia, in November, Professor Frederic H. Stoneburn was appointed a delegate to Washington, D. C., and to lay before the United States Food Administration the present condition that confronts the poultry industry. Mr. Stoneburn makes a report as follows:

In accordance with instructions, given me at the conference of poultrymen held in Philadelphia, November 13, 1917, I went to Washington to lay before the proper authorities certain vital facts relative to existing conditions in the poultry field and the necessity of taking any needed action to correct the unfavorable factors which are injuring the industry and interfering with its development.

As a result of extended conferences and the frankest exchange of views with various men in authority, I am convinced that in official circles there exists a keen realization of the importance of the industry, of the necessity of increasing the production of eggs and table poultry and of the tremendous difficulties under which poultrymen have been working recently, coupled with a determination to do every reasonable thing to remove these handicaps and so enable poultry keepers to conduct their operations upon a profitable basis. Therefore, I believe that the period of stress, discouragement and uncertainty is rapidly passing and that before many weeks have elapsed the efficient poultrymen will be able to make his business as profitable, and probably more profitable, as at any time during recent years.

The following extracts from two letters given me by responsible officials epitomise the whole matter:

"We now anticipate that poultry feeds will drop in price to a point from 40 to 50 per cent lower than during late summer and early fall of 1917.

"United States Food Administration,
"By W. F. Priebe."

"We feel that all these factors will result in the production of at least a normal crop of chickens during the coming season which will mean an increase over the crop of 1917, which was below normal. (Signed) Alfred R. Lee, "Animal Husbandman in Poultry Investigations, United States Department of Agriculture."

To my mind, this should give greatest encouragement to every one interested in or connected with the poultry industry. With feed prices restored to a practically normal basis at an early date, there is bound to be a tremendous increase in poultry production. Poultrymen will see to this as a patriotic duty, a response to the appeals of the government, and because it will be profitable as well. And renewed activity in the "national poultry yard" will surely result in a sharp demand for breeding stock, hatching eggs and baby chicks necessary to renew the depleted flocks, and for the equipment and supplies required to properly conduct the business.

I am not permitted to state in detail the steps which are being taken, or will be taken if circumstances demand, to bring about this change in the matter of feed prices. However, I think I am violating no confidence when I say that after extended conferences with the responsible officials I am personally convinced that no effort will be spared to make the change effective at the earliest possible moment, and that the vast powers of the Food Administration will be exercised, if necessary, to provide American poultrymen with ample supplies of feed at a price which they can well afford to pay.

I endeavored to draw from the officials a statement as to the approximate date upon which a decided drop in feed prices might reasonably be anticipated, pointing out the fact that such information would be of great help in inducing poultry breeders to retain the fowls they now have and thus insure an ample number of breeding birds for the next season. After consultation they decided that "full effect should be felt by grain purchasers about January 1st," or a matter of only five weeks from this writing. It is my impression that much depends upon the rapidity with which the 1917 grain crops can be moved and distributed.

In view of the foregoing facts, the American Poultry Association and the Pennsylvania Poultry Association are fully warranted in continuing and extending their efforts to induce the public to greatly increase poultry production as the quickest and best means of adding to our supply of animal foods, which is getting dangerously low.

Above we show a beautiful "Aristocrat" female as bred by W. D. Holterman, Box K, Ft. Wayne, Ind. Is not this most remarkable wing barring? The "Aristocrats" are known far and wide as a strain of great show birds and those of our readers who may be needing Barred Rock show birds will be able to get what they want by writing to Mr. Holterman. Should it be that for some reason or other the time for writing is too short, do not hesitate to wire him your order as he will take care of you right. He informs us that he has many show birds ready to win out in December and January shows.

The Food Administration is particularly desirous of having poultrymen feed the coarser grains, so far as possible, and thus conserve the wheat crop for human consumption. This is a reasonable request, in view of existing conditions, and I am sure will be heeded if given proper publicity.

I desire to thus publicly express appreciation of the

courtesies and help extended me, as your representative, by every official whom I interviewed. Specifically to Mr. W. F. Priebe, Mr. L. L. Strauss and Dr. F. M. Surface, of the Food Administration; Prof. L. A. Clinton, Mr. A. H. Lee, Mr. J. W. Robinson and Mr. D. M. Green, of the Department of Agriculture.

Complete copies of the letters from the Food Administration and Department of Agriculture, referred to above, accompany this.

Respectfully submitted.
FREDERIC H. STONEBURN.

AMERICA'S BIG JOB IN EUROPE.

SINCE it is almost a crime to waste any food or grain of any kind, the utility side of the poultry industry is now looming up stronger than ever. The slogan today is save, economize, use up the by-products. Dairymen are culling out their slackers, hog breeders are taking to the kind that take on flesh more readily and best all, the poultrymen as a whole have at last got down to culling. With the sudden advance in feed, a lot of poultrymen dropped out that should have stayed in the business, as we felt sure things would adjust themselves, and present prices of poultry products show they have to a very fixed degree. Eggs are now about 60 to 75 per cent more than they were last year, and we can now get almost as much for a good fat Rock hen on the market as we used to get for a well made lamb. It may be hard hoeing, but you'll find it the same in every other line. We simply have got to adjust ourselves and our methods to meet the times, and one of the good things that have been brought out is that some strains actually do lay better than others, and that every breed can have its laying capacities increased with proper breeding. You would no doubt be surprised to learn of the large numbers of breeders who a few years ago paid little or no attention to increased egg production but who are now figuring on breeding for heavier egg production, to help offset the high cost of feed, etc. One thing we must guard against in this mad rush for eggs, however, is the disregard for standard requirements entirely, as some breeders did a few years ago. We should remember that it is the fancy side of the industry with their numerous poultry shows that gathers in more new beginners than any one source, and that our aim should be to combine eggs and beauty. Bring the egg basket and the standard of perfection into closer relationship.

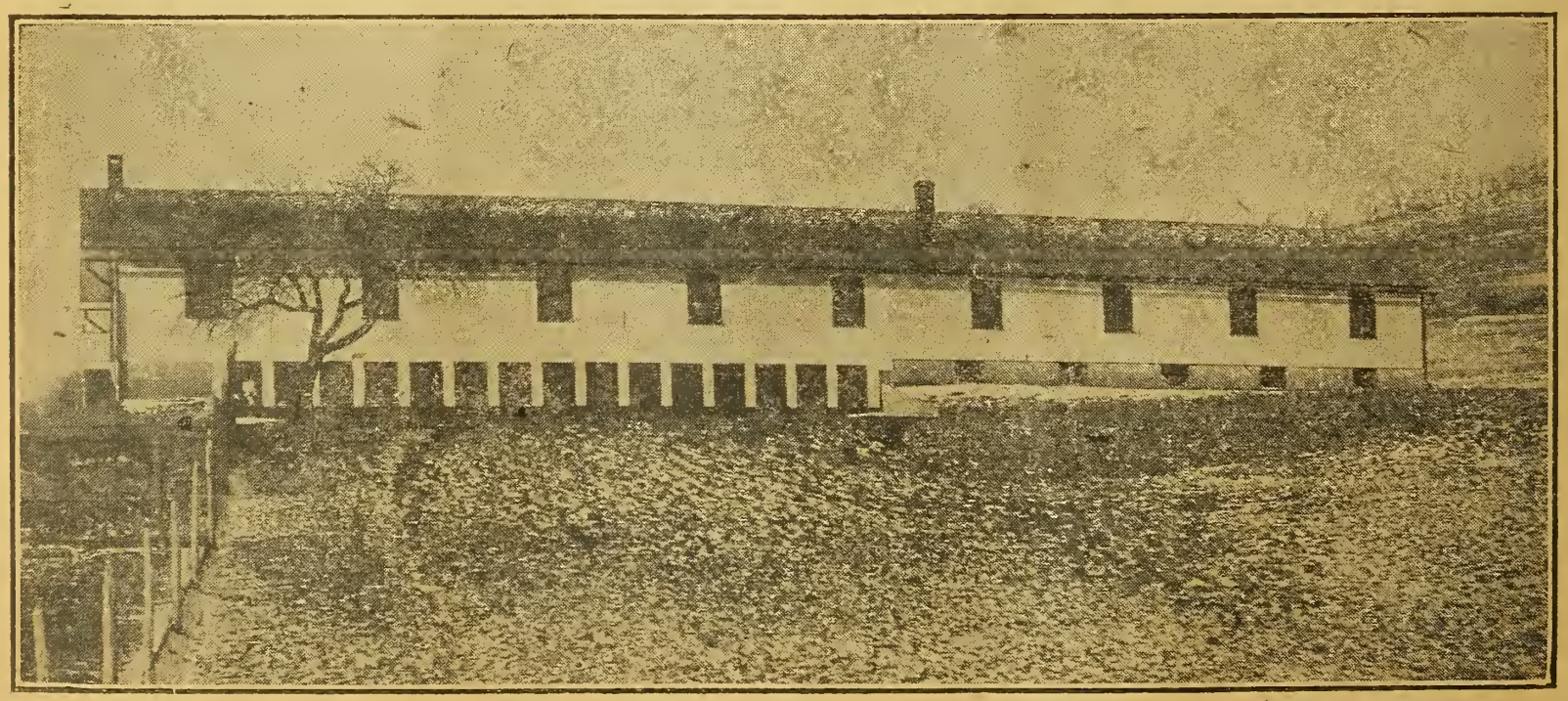
American breeders sure have some task ahead, as Europe is figuring on us to replenish the plants of Belgium, France and England, so Professor Edgar Brown, of England, one of the world's foremost authorities on poultry, told the American breeders in his talk at Storrs, Conn., last month. Are we developing our strains along the lines that will come up to our European breeders' aims. Professor Brown sounded one warning when he stated he was afraid American breeders were paying too much attention to individual birds (phenomenal layers, etc.) in preference to flock work. The utility craze today seems to be for the highest record individual—the phenomenal layer.

As one of the oldest utility breeders, let's refer back to the many crazes we have passed through, and for how little they amounted to. Some fifteen years ago some few poultry judges got to hanging the blue on the largest size birds of the different varieties. The first thing we knew there was a race of who could produce the largest specimens. We argued against it and sure enough a lot of good strains were ruined as far as egg laying and vitality went. Next came the system craze, with its promises of impossible returns for the breeders who followed out their regular cut-and-dried routine of feeding, etc. Some did have some few good points, but as a whole the system advocates died an easy death. Then following came the early laying craze. Here too we knocked, but early laying appealed to so many that our knocking quite often was at the loss of trade. Some breeders of heavy weight breeds had their pullets laying at four months, while we kept arguing that Rocks or any of the heavy breeds could not be fully matured to stand the strain of heavy laying at less than six months, although we have actually had them lay too at four months and nine days. What happened? Why, the first thing a lot of breeders knew, they had a lot of undersized weak chickens that laid an undersized egg and with not enough vitality to hatch. Then came the intensive system, that is where the chickens were kept in such small quarters they barely had room enough to get around. This for the back-lotter, where they buy new chickens each year, but the fellows that kept their chickens under such methods and then tried to raise chickens from them got up against it. Just as Professor Laurie, of Australia, says ruined a lot of good strains in their country years ago. Now we have the phenomenal laying craze. In this craze I believe we have much more danger than in any we have passed through.

Having made the subject of egg breeding my life's work, I naturally claim to be pretty well posted on this subject. I believe I can tell you where all the highest official egg records have been made, and by whose birds. I also keep close tab on the unofficial records made on home plants, which run as high as 365 eggs in a year. In fact I have one of the greatest collections of laying contest reports —about 200—from all over the world of any breeder in America. I have watched the trend of the winners right along and as a rule where a pen has cleaned up in a laying contest on the winnings of a couple of phenomenal layers in their pen, that breeder's birds seldom if ever come back winners. Study the records of our American laying contest and you'll find proof of this statement.

As to the phenomenal layer, we have produced quite a number of them, but we never get excited over them, for our actual records have shown that they as a rule are worthless as breeders. They seldom have the vitality to reproduce. (Just the experience of a number of other truthful breeders that have had their chance phenomenal birds.)

We have built up the reproducing and winning quality



One of the main buildings on the plant of J. W. Parks, Altoona, Pa., breeder of Bred-to-lay Barred Plymouth Rocks that do lay.

of our strain of high normal layers along sane scientific lines, that breeders of any variety can profitably follow out, and that has been by using the high normal layers with vitality to lay a good winter egg yield. Yes, after all these twenty-seven years of careful breeding we are still using made birds in some of our best pens from dams with records as low as 206 eggs.

Personally I believe the phenomenal layer or at least the phenomenal laying claims by some breeders have harmed the utility side of the industry. Not that we are censuring the poor innocent biddy that did actually lay 275 or 365 eggs in a year, as a Mr. Linde, of Trinity, Md., claimed for his Rhode Island Red hen, but the way these phenomenal laying records mislead the public. As a rule the beginner is always looking for the most in value for his money, and as a rule the highest number of eggs appeals to him. He is led to believe that any eggs from such a strain will lay about the phenomenal figures mentioned. He figures accordingly, and soon he is added to the great mass that claim they have tried the chicken business and given up in disgust—all because he aimed too high.

The phenomenal layer as a rule is pretty much as the Rev. Edgar L. Warren, author of the book "Two Hundred Eggs a Year," writes regarding phenomenal layers—they seldom mother phenomenal layers. In many cases heavy laying is a sign of weakness rather than health. Consumptive mothers as a rule are notoriously prolific. In his book he hits the nail on the head where he writes, "A hen (phenomenal layer) that greatly exceeds her family, outclassing her nearest kin, may be termed a freak and it seldom pays to use her as a breeder."

The late Professor Gowell, of the Maine Experiment Station, trapnested his birds for several years and bred each time from the highest (or phenomenal) layers, and to his surprise at the end of that time he found that his strain had actually gone backwards instead of forwards. Had he on the other hand taken the high normal winter layers as foundation stock each time, the chances are his results would have been encouraging.

Breeding for increased egg production is no child's play. It means something to establish a strain along permanent lines that will reproduce and give high egg averages to a fixed degree thereafter. Improvement along dependable lines requires scientific breeding. Results as a rule do not come like volcanic upheavals, as some laying literature would lead one to believe. Instead it is rather like the slow, even rising of the tide. The object should be to lift the whole flock average. It may and should be gradual, and strains so built with the breeding bred into the bone pay and pay well for the extra effort put forward.

To build up a laying strain the very first essential is vitality, for it takes surplus vitality and energy to withstand the strain of heavy laying. Select the high normal layers, the ones that kept on laying at least a few eggs right through the moult. Select males for your pens of such rugged breeding and don't be misled by the chance hen that will crop out which greatly outlay her nearest sisters, and devote all your breeding attention on her as a great many do.

We need more eggs. We are going to need a whole lot more when this war is ended and we have the task of restocking Europe. We need more utility breeders in every variety. What we have accomplished with our strain can be duplicated on any breed if the breeders will but use good judgment in mating and have the "stick-to-it-iveness," as the veteran poultryman Mr. A. F. Hunter calls it.

Don't make the mistake many make of aiming too high. Don't expect to accomplish in a few years what others just as bright as you have put in a lifetime to accomplish. The Parks strain of Rocks are now being fed by the third generation of Joes. That's why our birds in the long run have outlived a great number of other strains with much broader claims.

If you haven't given increased egg production in your flock any consideration, start right now. If you cannot see your way clear to buy foundation stock of some reliable breeder of your variety, you can do the next best thing. Select some of your best females and secure males. Since it has been proven that males to a greater extent than females transmit fecundity, you'll quite often be surprised at the improvement in the offspring even from the first mating. In fact it is by the introduction of males that 75 per cent of the improvement in both utility and fancy is practiced today.

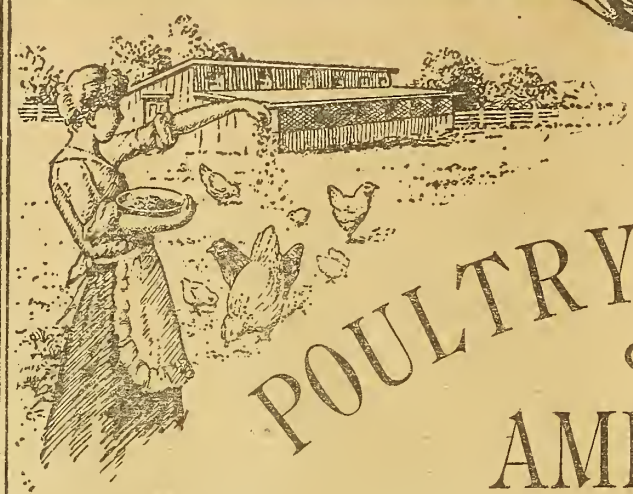
To select your best producers without the use of the trapnest of handling them you can take the hens that come off the roost first in the morning and last on at night, also the hens that keep on laying at least a few eggs right through the moult, and the busiest hens with the greatest appetites and you'll have a larger per cent of the best layers, that the Western author of a famous system of selecting the layers by feeling them did in his test on the birds in one of the Western laying contests, where his test run near fifty-fifty. The foregoing methods of selection by observation are a few of the dependable ones amongst many hundreds claimed by a multitude of enthusiasts.

The laying contests must be given credit for creating

This is still another of those great "Aristocrat" Barred Rock male birds as you find them in the yards of W. D. Holterman, Box K, Ft. Wayne, Ind. Mr. Holterman is surely producing superexcellent barring on his "Aristocrats," barring of the most perfect type in every section. And what is more, this barring is not only good on surface but runs the entire length of the feather, clean, sharp and snappy. The "Aristocrats" are sound, solid, substantial birds all around. Get Mr. Holterman's beautiful catalogue—a book of great value.

a lot of this new interest in utility poultry, but at the same time some of their reports and methods have not been above criticism on account of being misleading. After all we are most interested from a dollar and cent standpoint, when we once get into utility or increased egg production. Such being the case, numbers of eggs are not alone the only consideration. When they are laid and the size are vital points. Why don't the laying contests figure the eggs at so much for each month laid, the same as we do when we keep tab on our own profit and loss accounts? Give the winter eggs credit at winter prices and summer eggs at summer prices. Do you know it's a fact that pens have won in our laying contest, and heralded as wonderful birds that have been greatly outlaid by several dollars by other pens in the same contest. Size too should be taken into consideration, as in the past an egg is an egg in our contest and we have had breeders' birds win in our contest that were thrown out in a foreign contest when they held second place, because of their small ill-shaped eggs.

These facts we state for the good of the cause, and not that we have any kick coming, for the official records show that our strain has well taken care of themselves in the contest, and in addition to having run off with the first prize for the year, have also captured three silver cups hand running for December, January and February laying. However, had the results been given in dollars and cents there would have been some further surprises.



POULTRY KEEPERS OF AMERICA

The United States Calls to You to Make the First Big Addition to the Meat Supply of the United States and the Allies

The United States must have in 1918 the biggest crop of Poultry and Eggs ever known, and the increase in these products can be made with profit to the producers.

The Department of Agriculture is cooperating with the poultry press, the agricultural press, and the general newspapers to this end. It is also placing in the field many extension poultry husbandmen, selected for experience and special ability to promote interest in raising poultry.

The Nation expects every poultry keeper to produce all the poultry and eggs he can raise at a profit, and then do all in his power to persuade his neighbors to keep poultry and to help them to make their poultry pay.

The general campaign and the direct efforts of the men in the field will bring best results in communities where local poultry keepers do all they can personally to interest the people of their communities along the following general constructive lines:

More Backyard Flocks **Larger General Farm Flocks**

Closer Selection of Standard Poultry for Meat and Eggs

Not every poultry keeper can greatly increase production from his own flock, but by interesting and aiding others everyone indirectly can add more than double his usual contribution to supplies of poultry and eggs the coming year.

For detailed information as to how you best can cooperate in this work write

YOUR STATE AGRICULTURAL COLLEGE

or

U. S. DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C.

Your Help is Needed in the Big Drive for More Food to Win the War

Space donated by the publisher.

R.C. Steadman

FINAL REPORT OF AMERICAN EGG LAYING CONTEST.

By T. E. QUISENBERRY.

IN THE new contest which opened on November 1, we have the greatest and best lot of pullets ever brought together in any one contest anywhere in the world. We believe we speak the truth when we say this. America's best and most widely advertised flocks are entered in this competition. They are high in exhibition quality as well as being bred from good laying stock. The birds are surprisingly well matured considering the high price and scarcity of feed. Some, as usual, will not lay for sometime. But all in all, it is the grandest lot of birds that we have ever seen. Thirty-one States and Canada are represented. Some birds were imported direct from England and others from Australia.

The contest is divided into three sections: the breeders contest, where seventeen varieties of three pens each are competing; the hen contest, where over twenty pens of yearling hens are being tested for their second year, and the special White Leghorn contest, where 500 of America's best bred Leghorns are competing.

An accurate record of the feed, labor and proceeds from eggs for each variety is being kept and some interesting and helpful facts should be developed regarding cost and methods of feeding. We will also see if highly bred exhibition strains can lay a profitable number of eggs.

In the contest just closed, no world records were equaled. This being the first year, we had some things to learn and overcome which have been provided for in the next contest. As a whole, the birds did reasonably well. The winning pen was White Wyandottes from G. W. Schottmann, of Montrose, Ill. The five pullets made an average of an even 200 eggs each. The leading pullet made a record of 268 eggs and was a Black Rhinelander from California owned by A. Schwarz, of Burlingame.

The winning pens of five pullets each for the various months were as follows:

Month.	*Pen.*	*Eggs.*
November	16. S. C. White Leghorns, Kansas	87
December	74. White Wyandottes, Illinois	94
January	17. S. C. White Leghorns, Missouri	112
February	114. Barred Plymouth Rocks, Missouri	113
March	46. R. C. Black Rhinelanders, California	125
April	117. Black Orpingtons, Ohio	130
May	68. Silver Wyandottes, South Dakota	131
June	29. S. C. White Leghorns, Illinois	119
July	9. S. C. White Leghorns, Pennsylvania	89
August	46. R. C. Black Rhinelanders, California	105
September	111. White Wyandottes, Indiana	83
October	46. Black Rhinelanders, California	72

At the close of the contest, the ten pens which had made the highest records for the year were as follows:

Pen.	*Eggs.*
74. White Wyandottes, Geo. W. Schottmann, Montrose, Ill.	1,000
9. S. C. White Leghorns, Parkview Egg Farm, Dover, Pa.	946
17. S. C. White Leghorns, White Leghorn Farm, Cameron, Mo.	943
114. Barred Plymouth Rocks, E. B. Evans, Mt. Grove, Mo.	933
46. Black Rhinelanders, A. Schwarz, Burlingame, Cal.	932
76. White Wyandottes, Jacob Day, Green Forest, Ark.	911
6. S. C. White Leghorns, Geo. D. Gray, Boerne, Tex.	878
113. Barred Plymouth Rocks, Maine	860
85. Barred Plymouth Rocks, Ed. Bloyd, Leavenworth, Kan.	845
30. S. C. White Leghorns, T. M. Perkins, Garden City, Kan.	820

A large number of pullets laid from 120 to 268 eggs each and scored 90 or more points, which entitles them to a registration certificate. The ten leading pullets with the highest records are as follows:

Hen.	*Eggs.*
461. R. C. Black Rhinelander, A. Schwarz, Burlingame, Cal.	268
763. White Wyandotte, Arkansas	240
741. White Wyandotte, Illinois	236
453. R. C. Black Rhinelander, New York	224
762. White Wyandotte, Arkansas	223
1145. Barred Plymouth Rock, Missouri	222
5. R. C. White Leghorn, Illinois	221
46. S. C. White Leghorn, Philip Dawson, Alexandria, Va.	218
742. White Wyandotte, Illinois	214
172. S. C. White Leghorn, Missouri	211

In the individual contest, the Buff and White Leghorns carried off the honors. The highest pullets in this contest were as follows:

Hen.	*Eggs.*
348. Buff Leghorn, Michigan	252
739. S. C. White Leghorns, Missouri	235
349. Buff Leghorn, Michigan	230
388. Buff Leghorn, Michigan	223
347. Buff Leghorn, Michigan	221
157. S. C. White Leghorns, H. E. Williamson, Dubuque, Iowa	209
357. S. C. Brown Leghorn, H. P. Shapley, Eastville, N. Y.	198
198. R. C. Reds, D. J. Deibel, Columbus, Ohio	190
928. Barred Plymouth Rock, South Dakota	182

VICTORY! VICTORY! VICTORY!

The sound of victory is in the air. From Northland and Southland, from East and West—from Canada, the States, South America—from the whole American continent comes the triumphal shout:

VICTORY! VICTORY! FOR THE

ARISTOCRATS!

In their magnificent sweep of glorious triumphs from one end of the country to the other—**in competition open to the entire world**—the all-conquering Aristocrats are heralded and crowned victors at these largest Barred Rock shows of all America, of all the world: **Chicago, the great World's Fair, Guelph, Philadelphia, California State, Norfolk, Nebraska State, Toronto, Memphis, "Tri-State", "N. Y. Palace"**, and many, many hundreds of other shows, large and small.

I GUARANTEE EVERY ARISTOCRAT SHOW BIRD

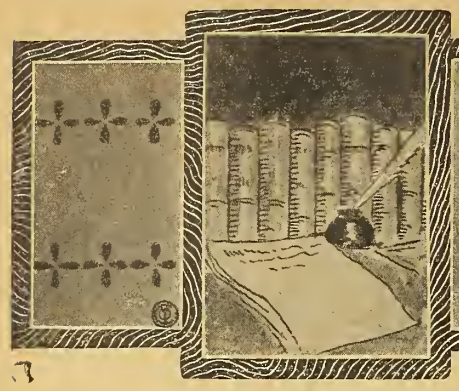
You must be perfectly, entirely satisfied with any Aristocrats you get from me or I will pay you back every cent you paid me. You run no risk. I take all the risk upon myself.

DO YOU STILL NEED SOME SHOW BIRDS—SURE WINNERS?

Make up your mind quick and write me, or, if in a special hurry, wire me. I have them ripe and ready to step right into the show room and win out for you. I can help you. I have them. I have them **up-to-weight, finished, ready—the most wonderful, Superb Barred Rock show birds you have ever seen.**

W. D. HOLTERMAN, Fancier, Box K FORT WAYNE, IND., U. S. A.

Eggs that produce such wonderful winners
$10.00 per 15, $25.00 per 50, $50.00 per 100



EDITORIAL CORRESPONDENCE

Co-operation.

WE feel sure that our subscribers and readers fully realize and understand the paper situation at this time and the hardship it works upon the publishers. Right now the cost of paper is higher than was ever known and the chances are it will go still higher and a possible chance of not being able to secure it at any price within the next twelve months. A lot of the publications have already increased their subscription price and especially the city dailies. We do not want to increase the subscription price of the Industrious Hen and if our customers will co-operate with us we can continue to give the poultry raisers and farmers throughout the South a better paper each month at the same price (fifty cents per year), which is low when you consider that possibly one article will be worth ten times that to you.

If all of our subscribers would get us one new subscriber at fifty cents and send to us in the next thirty days, such co-operation would help tide us over this crisis and would enable us to give our readers a much better paper each month. Each of our subscribers could find it easy to get one of their neighbors or friends to subscribe to the Industrious Hen and could possibly secure as many as four or five or more.

For each new subscriber that is sent in to us on this plan we will give you a year's subscription to the Industrious Hen. If you are an old subscriber we will extend your subscription a year for each new subscriber you send in. If you send in five you will get the Industrious Hen five years free.

This should appeal to all of our readers or subscribers. We are not asking you to do something for nothing, but will pay you well. Possibly a lot of our friends would be glad to do this gratis, but we want to show our appreciation for your help. We must co-operate and work with each other and we hope our readers and subscribers will help us build a stronger and better poultry paper for the South by sending us just one new subscriber or more if they can. Get busy now before you forget it.

Our Loans to Other Nations.

THE United States has loaned to other nations engaged in war with Germany something over three billion dollars, taking for the sums advanced the obligations of such nations, bearing the same interest and maturing at the same time as the Liberty Loan bonds.

The wisdom of this policy is beyond question. By strengthening these nations and making them as powerful and as effective as possible, we are greatly aiding in the shortening of the struggle; we are doing much to insure an ultimate victory; we are doing only that which it is our duty to do toward our allies in this tremendous war against an autocracy which would debase and enslave all nations and men.

The fact that if we did not advance this money much of the work which the allies are doing would have to be done with American money and American men establishes clearly the intelligence and wisdom of our policy.

There is work to be done which requires the expenditure of blood and treasure. In making these money advances to Great Britain, France, Italy and other nations we are lending money, which will be returned to us, instead of expending sums possibly as great, possibly greater, with no hope of return. In addition, we are saving the lives of American soldiers.

No policy the American Government has pursued is wiser or more truly economical and patriotic.

Homeless Children.

IN THE light of the great question being agitated at the present, that of conservation, we desire to call attention to the most valuable asset of the State or Nation, that of citizenship. Every child born into the world has a right to demand of the State or Nation a square deal and an opportunity to acquire a proper conception of life. No place is so adequate and conducive to such results as home life, and may I say that of farm life. It has long been a recognized fact that the open field and country is the source of our stalwart citizenship. Hence the effort on the part of the Tennessee Children's Home Society to place children, more especially the boys, in well regulated country homes.

If you are a farmer, could you do a better thing than take a little homeless boy and give him the proper home training, and acquaint him with the farm industry, and with this give him an education, and at the same time brighten and make your home more cheerful? This society has in its receiving home between thirty and forty children, most of whom are boys, ranging in age from tiny infants to seven years. These are exceedingly bright and well favored children, with plenty of energy to make fine men. We consider that no greater work than this can be done toward the conservation of the greatest asset of our State or Nation, that of citizenship. If you would like to take one of these little ones in your home for a three months trial period, write B. G. Regen, 213 Eighth avenue, N., Nashville, Tenn.

How to Raise Strong, Healthy Chicks.

THE secret of success in raising small chicks is to be sure that they are strong and healthy when they are hatched. Or we can go back even further than this and say, be sure they are hatched from eggs of strong germs and that these eggs are laid by healthy, vigorous birds which have an abundance of vitality. Usually chicks hatched under these conditions are easily raised and grow into healthy and valuable birds. We were very much amused at what a breeder told us a few weeks ago, while visiting a poultry show, in regard to the trouble he has with his young stock. He remarked that he was able to get only about a fifty per cent hatch, and fully one-half these chicks died before they reached the age of ten days.

When we inquired as to his breeding stock, and had a chance to inspect some of his birds, we soon realized the cause of his trouble. It is easy to tell a strong, vigorous bird, either male or female, and the birds which he had at this particular show were good specimens, still they lacked the vitality it takes to produce strong, healthy chicks that will grow and develop into valuable breeders or layers.

In selecting eggs for hatching, use only those of uniform type and shape. Be sure they are laid by healthy vigorous birds. If you keep those two important points in your mind, you will have greater success and get larger hatches. No doubt a great many of you will purchase incubators this season. Possibly this is the first machine you have ever used and you are not familiar with its workings. If you do not get a fair hatch from your first trial, do not blame the machine, because, nine times out of ten, it is due to the inferior quality of the eggs and not the machine. Many times fertile eggs cannot be hatched and the chicks die in the shell on the eighteenth or twentieth day or right at hatching time. In most cases, this is caused from weak germed eggs and is not the fault of the machine.

We all realize what health and vitality means in the human race, and we are believers in having laws to enforce eugenic marriages. It is just as important if you want health and vitality in your birds to have nothing in your yards but strong, vigorous breeding birds. They will produce chicks that will make poultry raising a pleasure and profit for you. The proper incubation of the eggs, whether it be natural or artificial, of course, is essential, but unless you have the right kind of eggs, little progress will be made and possibly a whole season will be wasted, causing you to be discouraged with the poultry business.

Under this heading we will give our readers each month clippings from our exchanges that we think will interest them.

Show Your Birds.

Let no poulterer, therefore, have the misguided ideas of patriotism that it is his duty to sit complacently by during these times of all times, refuse to show his stock and further talk about the shows all going to the bow-wows. It is your duty as one of the leaders in the poultry fraternity in your community to encourage, to enthuse, to stimulate the production of more poultry and at the same time more efficient poultry. More efficient poultry is of necessity thoroughbred poultry and there is no better place to do this than in the show. The poultry association that is going to give up a show this season should be encouraged in every way possible, for they are doing a wonderful work, more than their bit, as we speak of it. Encourage them by doing your duty by your own country in this hour of need.—The Leghorn World.

Save Your Grain—Feed Sprouted Oats.

Sprouted oats are now recognized as the best green feed obtainable. The government is now devoting more time in their experiment stations to the feeding of sprouted oats than ever before.

With a modern grain sprouter oats can be sprouted four to five inches long in about a week's time. Nothing but a little heat and vapor moisture is required to accomplish this. It is not only quite easy to operate a sprouter but it is really quite interesting to watch the grain grow at the rate of an inch a day.—The Poultry Breeder.

Prominent Poultrymen Go to Work for the Government.

The great campaign being inaugurated by the U. S. Government to increase poultry production has caused a number of the well known poultrymen and breeders to take positions in the Bureau of Animal Industry under Senior Poultryman H. M. Lamon, who will have charge of this campaign.

Among those who are taking up this work are the following:

John H. Robinson, Boston, Mass., well known as a poultry writer and breeder of many years' experience.

Frank L. Platt, Swanton, O., prominent as judge as well as breeder and poultry writer. Recently editor on standard work.

Leo J. Brosemer, South Bend, Ind., prominently connected with breeding and investigational work. He was formerly in the U. S. poultry service.

D. M. Green, Cherry Valley, N. Y., prominent as a judge and breeder as well as a poultry writer.—The Poultry Item.

Will Stop Shipping Poultry in Ice.

That chilled dry-packed poultry reaches destination in much better order than the wet, ice-packed product is shown. the United States Department of Agriculture states, by reports which have reached it from various markets. The specialists of the department recently studied shipments of chilled dry-packed poultry and wet-packed poultry which had been shipped in the same car. The dry-packed birds were in excellent condition while the wet-packed were unfit for use on arrival at destination. The dry-packed product stands delays in transit far better than the ice-packed, especially during warm weather.

A number of packers, at the instance of the department, have changed from wet to dry packing. Many have reported that they have had uniformly good results with dry-packed poultry but have been having trouble with ice-packed birds. A number who have compared the two methods report that they will introduce the dry-packing system in all their branch houses at once.—Poultry Breeder.

Names of Exhibitors Will Appear on Coops at Big Boston Show.

Believing that the public will be better pleased and informed and that the exhibitors will receive more benefit in an advertising way, the management has decided that the names of exhibitors will appear on the coops at the big Boston show, January 14 to 19. It is a foolish notion that certain exhibitors are apt to be favored in the judging when names are on the coops. Crooked judges can be unjust in their awards whether or no. Only honest and capable judges are engaged at the Boston shows. Their work is beyond suspicion.

In judging horses, cattle and dogs the owners are known and there is no good reason why judges of poultry should be placed in a position that suggests suspicion of favoritism or even dishonesty.

There are no favorites played in the management or the judging of the Boston show. We employ honest judges; we ask the support of honest exhibitors. W. B. Atherton, Sec'y.

Renew your subscription now and don't miss a single issue of the Industrious Hen during the coming year.

Frank's White Rocks

Egg Contest Winners, Winter Layers. Write for interesting Folder, it's free.

CHAS. FRANK Box 486-I MEMPHIS, TENN.

1889 Parks' Bred-to-Lay-Barred Plymouth Rocks 1917

Are the DADDY LAYING STRAIN OF THEM ALL. With over 27 years of careful selection, trapnesting and pedigreeing for eggs. That's why they so easily outlayed the over 2600 birds from all over the world in the last 5 Mo. Lay. Contests.

They are also bred close enough to the Standard to win the blue at Elgin, Ill., Youngstown, O., Utica, N. Y., Wheeling, W. Va., etc.

C-O-C-K-E-R-E-L-S. That stamp the lay on their offspring. Cockerel and stock circular free. 40 page catalog a dime.

J. W. PARKS, BOX H ALTOONA, PA.

Just say you saw it in THE INDUSTRIOUS HEN.

SOUTHEASTERN NOTES and COMMENTS

By D. R. McBRAYER, Mooresboro, N. C.

WE WISH every one of our readers a merry Christmas and a happy New Year and may the new year bring health, happiness and prosperity.

Make your Christmas gifts useful this year. This is the time to "cut out" the giving of useless and expensive gifts. Make every dollar count. There is lots of money in the country, but it is going to take a large part of this to whip Germany and this must be done if something else is lacking. Have you a friend or relative at the front or in a training camp in America? If so, then remember him with a Christmas gift. He will appreciate the fact that you have enough interest in him to remember him on this occasion. Every soldier who goes out to fight for us should be equipped in the best possible manner. Nothing should be lacking that would add to his comfort and efficiency so let's get behind the Y. M. C. A. and the Red Cross and help them to help the boys who are giving their all to win this war. Give lavishly Christmas but let your gifts be practical common sense gifts, and ones that will do good.

Winter with all its cold blasts is now upon us in earnest. The man who cares for his birds in such a manner as to make them lay eggs this month and next will pass the mark of "success." It takes a real interested man to crawl out of bed these cold mornings by daylight and have his fresh water and feed before his birds when they come off the roost, but this is what it takes to get the results. The days are short and the hens must be eating and working every hour of the short day if they are to lay eggs with any regularity. Too often we see people keeping their "back-yard" flocks and complaining of not getting eggs when the fault is entirely with the care given the flock. You need not keep hens for eggs if you do not expect to feed them until nine or ten o'clock in the morning and again at two or three in the evening, and at these feeds giving an unbalanced feed of grain and no mash at all. Chickens need plenty of good fresh water at least twice a day in winter, all the greens they will eat in addition to the grain and mash feeds. Then they must have good comfortable sleeping quarters and a place to take exercise every day. A good open-front scratch shed and roosting house is absolutely necessary during these cold days. Take care of your hens and they will take care of you by laying eggs and lots of them. Otherwise you will be among the hosts of poultry keepers who declare "My hens just won't lay."

Get your incubator catalogues this month and order your new machine so you will have it ready to start hatching by January 1. You must order early if you expect to have your machine when you get ready to hatch. There is going to be a great demand for poultry meat at high prices during the next year and we should get our hatching under way during January and February. Look the pages of this paper over and spend a few cents in getting their catalogues.

Make up a breeding yard or two now for early hatching. This will give you time to make any changes that may be necessary and also for the birds to get used to each other before you want any eggs for hatching. Get them mated by January 1 and get off a few early chicks.

Watch out for disease in the flock during the next few weeks. Colds and roup are very prevalent at this season of the year and a cold neglected may prove fatal. Canker is also very troublesome during this season and very often kills a large number of birds. The best advice we can give is to be always on the lookout for any symptoms of disease and treat them early and thus you may be able to save many a valuable fowl. First of all, isolate every sick bird and then treat according to the symptoms.

Have you attended a good poultry show this year? If not, why? It will do you good to meet your fellow breeders and talk with them. You may be able to get some very valuable information from the other fellow and you may also be able to help some other fellow out of trouble. Don't neglect to attend at least one good show and meet the breeders there. You will find them a jolly good set of men, or at least we have always found them such.

We hope to meet a large number of our friends at the Charlotte, N. C., show this month. We have attended a great many shows but we have yet to find a friendlier and more wholehearted set of fanciers than are to be found at Charlotte and we always look forward to the Charlotte show as one of the good times of the year. All ready for the big Charlotte show. Meet us there!

The problem of feeding our flock this year is not going to be so great as it was last. We have gotten quite a few bushels of grain stored away now and we are going to be able to feed our flock a very well balanced ration at a cost per hundred pounds that will not make it prohibitive. We have fed a few bushels of cowpeas to good advantage this fall. Pears are rich in protein and are fine for balancing a ration where corn is to form a large part of it. We have also provided a large amount of green feed and expect to use this to good advantage. Our birds are now showing up well and we expect to get the eggs during the next few weeks.

Spend these long winter evenings reading your poultry magazines and you will be in much better position to go about your work in a practicable way. You can get lots of valuable information on the various subjects of poultry culture from your poultry papers if you will get them out and study them as you would any other subject.

MAGIC EGG TESTER

This sent by us anywhere in Kentucky, Parcel Post Insured. C. O. D. $2.00.

You make a mistake if you fail to use this scientific device on every egg before incubation. 10th year on the market.

Immense help to beginners in poultry raising. Circular on request.

HALLER'S PET SHOP

LOUISVILLE, KENTUCKY

An egg laid for every yolk made

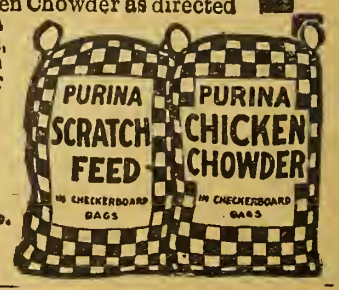
Grain-fed hens don't lay all the yolks formed because grain doesn't make enough whites. Unlaid yolks are absorbed by hens, making fat that cuts down egg production. Wheat, corn, oats, barley and kafir contain elements for an average of 224 yolks and *only 154 whites*. Purina Chicken Chowder fed with Purina Scratch Feed contains elements for 212.33 whites and 214.77 yolks. Note the perfect balance and large number.

More eggs or money back

The money paid for Purina Chicken Chowder will be refunded if hens do not lay more eggs when fed Purina Chicken Chowder as directed with Purina Scratch Feed, than when fed any other ration.

64 page Poultry Book Free

Ralston Purina Co. 819 Gratiot St., St. Louis, Mo.



S. C. WHITE LEGHORNS Eggs $1.50 per setting, Chicks 15 cts. each.

BUFF PLYMOUTH ROCKS Eggs $1.50 per setting, Chicks 20 cts. each.

For Sale Stock, Eggs and Day Old Chicks

PINEY HILL POULTRY YARDS, Jno. G. Fletcher, Prop., Member A. P. A.

NORTH CHATTANOOGA, TENNESSEE

MAPLESIDE "Bred-to-Lay" Barred Plymouth Rocks

WERE NEVER SLACKERS, BECAUSE

80% of all Hens on Hand Jan. 1, 1917, averaged 201 Eggs Each

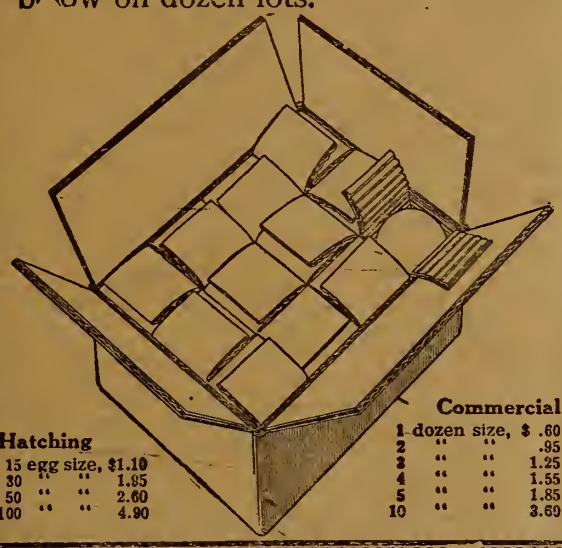
About 2000 breeders for sale, including pedigreed stock from high record hens. Circular of facts free.

O. F. MITTENDORFF, Box M Lincoln, Ill.

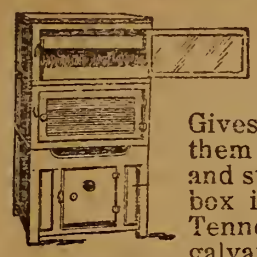
KEEP YOUR PROFITS GROWING

New Andrews Egg Carrier

—the egg carrier that eliminates loss. Eggs just can't break in it. Here's why:—Four corrugated cushion protections on the ends and three on the sides. I'll stake anything on the New Andrews Egg Carrier when it comes to safety and economy. Give it a tryout yourself. It will stand the gaff and rough usage in the mails without a whimper. You can use it any number of times. Comes flat, easily assembled. Prices are listed below on dozen lots.



Hatching		Commercial	
15 egg size,	$1.10	1 dozen size,	$ .60
30 " "	1.95	2 " "	.95
50 " "	2.60	3 " "	1.25
100 " "	4.90	4 " "	1.55
		5 " "	1.85
		10 " "	3.60



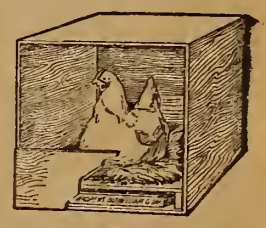
Oat Sprouter

Andrews Oat Sprouter

The ultimate in oat sprouters and one of the most valuable devices you can own. Gives your birds green feed all winter. Stimulates them to greater egg production. Sprouts healthier and stronger oats four times as fast as the ordinary box in your basement. Made from best grade Tennessee poplar lumber, lined with asbestos and galvanized tin. Has special advantages not found in ordinary sprouters.

Andrews Mite-Proof Nest

If you want to keep your fowls free from profit-sucking, health-sapping lice and mites, get my Mite-Proof Nest. There's a false bottom in every nest that holds a pan of Andrews Disinfectant and Dip. Mites and lice *can't* live anywhere near this sure-killing disinfectant and dip. I also make mite and lice-proof brood koops and roosts and sell them cheaper than you can make them yourself.



Andrews Mite-Proof Nest

Send For My *Free* Book— "POULTRYMAN'S TEXT BOOK"

Contains information about the appliances that will boost your profits and save your poultry. Just crammed full of valuable poultry advice and money-saving suggestions. It will tell you all about my wonderful Remedies, Shipping Koops, Incubators, Egg Trays, Colony Brooders, Fireless Brooders, Trap Nests, Colony Chick Houses, Baby Chick Carriers, etc. **Order direct from me.**

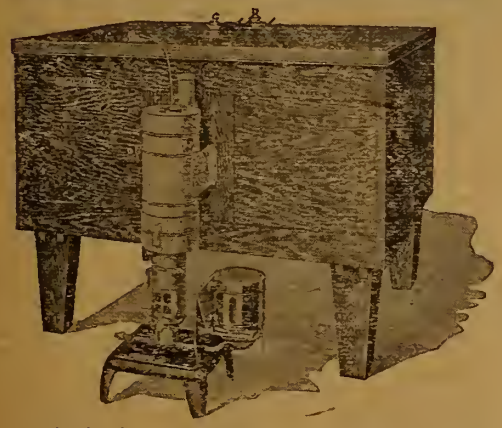
All my appliances are efficient and inexpensive. Save money, send for my book today—absolutely free. Freight prepaid on shipments of 100 pounds in weight or $10.00 in value.

THE O. B. ANDREWS CO., Box IH, Chattanooga, Tenn.

"The World's Largest Poultry Specialty Manufacturers"

Buckeye Mammoth Incubator.

The Buckeye Incubator Company, Springfield, Ohio, have perfected and placed upon the market a mammoth incubator that should



revolutionize this end of the business. The machine that they have brought out is only five feet square and has a capacity of 2,440 eggs and can be run with either gas or kerosene. Note the illustrations herewith and this will give you an idea as to the working and construction of the machine. The old machines that have been on the market for years have always cost a lot to install as a large cellar was necessary and of course this was extra expense. The old style machine with 2,440-egg capacity requires a cellar twenty-five feet long which usually costs as much or more than the machine. The Buckeye Mammoth may be operated in any ordinary cellar or any small room and no extra expense incurred.

We want all of our readers to have a copy of the handsome catalogue of this machine and this will be sent free to all who write the Buckeye Incubator Company, Springfield, Ohio, and mention this paper.

Wendell Incubator Co.

In this issue we are carrying the advertisement of the Wendell Incubator Company, Holly, Mich. Be sure to look up their advertisement and write them for catalogue and circulars describing the full line of incubators, brooders and poultry supplies. They carry a full line of supplies, everything needed in the poultry yard. Please mention this paper in writing them for their free catalogue.

SAVE THE CHICKS

By using the National Gape Cure and White Diarrhea Cure. Full instructions on each box. If you can not get it at your dealers, order direct and send us your dealer's name. Price only 25c each, postpaid. Guaranteed to cure or money refunded. Agents wanted. DR. J. M. HARDIN, Gen'l Mgr.

NATIONAL GAPE CURE CO. **Brandenburg, Ky.**

Silver Laced Wyandottes

Winning at Ohio State Fair, two first, one third with four entries. Stock and eggs at reasonable prices. Satisfaction guaranteed. Write

C. W. HUNTER, Route No. 6, Mt. Vernon, O.

Buff Orpingtons—S. C. R. I. Reds—Barred Rocks

My birds won this fall at Kentucky State Fair and at Knoxville, Tenn., in close competition, and have begun their egg-laying campaign.

Cockerels of either variety fit for the show room or for breeding purposes are for sale at $3.00 and $5.00. Show birds are a matter of correspondence. Satisfaction guaranteed.

S. M. HARBISON, ***Box A*** ***Danville, Ky.***

Just say you saw it in THE INDUSTRIOUS HEN.

FARM AND GARDEN

Under this department we aim to give our readers the best possible news matter pertaining to the farm, garden and other agricultnral interests in a condensed form each month. Poultry raisers are nsnally engaged in other forms of agricnltnre and we hope they will profit from this department each month. We will be glad to have onr readers and snbscribers give their experiences here each month.

Raise Cows.

In these days of strenuous times when the food problem is the all-important question, there is nothing that will help out quicker and prove more advantageous than a herd of good cows. Never sell a calf if you are a farmer, least of all a heifer calf. You will be the loser if you do so. But buy all you can, all you have feed for and they will grow into money while you sleep.

There is no quicker and surer way to build up a herd. In a surprisingly short time you will find yourself the possessor of a fine bunch of cows and money-makers.

I know from experience what I am talking about. Right now we are buying a dairyman's calves, paying $10 and $12 a head for them. This is our second year at the job. We take them when from two to five days old. Raise them by hand. In earlier days we bought young calves at from $2.50 to $5 per head, later at $6 and $7.50. But such times are past.

More and more people are coming to learn the value of a good cow, either of the beef or dairy type. Increase of the herd means increase of profits.

No farmer can make it year after year simply raising and selling grain and hauling hay to market. He may reap fair results for a time, but unless he handles stock, sooner or later he will find himself stranded. His crop converted yearly into cash, vanishes, for money is slippery these days. If fed to stock it brings increased value through added growth and quality. And never is this more true than when consumed by cattle, especially dairy stuff. For in addition to raising a calf each year the cows furnish additional profit in the way of milk and butterfat.

The Holsteins are our choice of cows, as they are not only prolific milkers, but large in size also, and the male calves make quick growth and fair beeves, bringing a good price on the market.—Mrs. C. K. Turner.

Kafir and Milo in Heads.

The Oklahoma Agricultural Experiment Station at Stillwater has run a large number of tests to determine how many pounds of kafir and milo in the head it will require to produce fifty-six pounds of threshed grain, or one bushel. Field-run heads were used. They were trimmed very closely, having not more than two or three inches of stem. They were ordinary heads, including large and small, just as they were found in the field.

It was found that seventy-five pounds of kafir or milo in the head made one bushel of threshed grain. This is the average of a large number of tests, and they all run very closely together.

It has been customary in Oklahoma to consider seventy pounds of kafir or milo in the head as one bushel. This custom is quite general whenever these crops are sold in this condition. These experiments, however, indicate that the heads will not generally thresh out this high a percentage.

Rape a Good Crop.

Rape is the best winter pasture crop if seeded on good soil, say the farm crops men of Clemson College. It will come to a stand in three days, and is ready to graze in fifty days.

Early this fall turnips, mustard and rape were planted at the same time and on the same land. The soil was prepared the same way. Yet the rape was first to come up. Also, it grew on very much faster than the others.

South Carolina farmers should seed rape as early as possible now to get the benefits of the good season. The seed are cheap and a small amount will cover a lot of land and will produce abundant pasture.

The crop is best adapted to a rich loam well prepared. It does not prove very satisfactory on poor soils. It is a fine pasture crop. Chickens like it, and all kinds of live stock relish it. Also, it may be used as a human food. It makes excellent salad.

Dwarf Essex is the variety to sow. Prepare a good seed-bed, the same as you would for turnips. The seed may be either broadcasted or drilled in rows. If broadcasted use six pounds to the acre; in rows about four pounds are sufficient. Cover shallow as you would turnip seed.

Analyses of Commercial Fertilizers.

The amount of plant food is all important in purchasing fertilizers. When a farmer buys a ton of an average commercial fertilizer he buys in reality only about 300 pounds of the actual plant food elements. These elements are necessarily in combination with other elements. For this reason a fertilizer can never contain 100 per cent of plant food elements. If he buys a cheap or low grade fertilizer he gets less than this amount. If he buys a high grade fertilizer he may receive as much as 600 pounds. The cost of sacking, hauling and freighting is the same. Therefore, it is evident that the manufacturer can sell the plant food in a high grade fertilizer cheaper a pound than he can the plant food in a low grade fertilizer. In other words, the higher the grade the cheaper can the plant food be bought. Farmers are advised therefore to purchase only high grade fertilizers, that is, those containing high percentages of the elements which it is desired to purchase. This would mean, for example, the purchase of 16 per cent acid phosphate, rather than a 10 to 12 per cent grade. Farmers need to study the fertilizer requirements of their soils before purchasing fertilizers.

Cater to the Home Market First.

Have you thoroughly investigated the possibilities of your home market? We are often inclined to belittle home things and view those at a distance as larger and better. For instance, in one Eastern county of Pennsylvania the farm bureau agent calls attention to the astonishing fact that although the potato crop is 100,000 bushels short of the number which are consumed annually in that county, carload after carload are being shipped away. Far be it from us to discourage producers from getting all they can for their crops, but is it necessary this year, when the railroads are swamped with business, labor is scarce everywhere and we are all working with a world-wide object in view, that all old customs should necessarily be continued? When we wanted to handle everything a lot of times to keep men employed, may be it was justifiable, but who knows whether the railroads will be able next spring to move an equal or greater amount back again? Your county agent undoubtedly can give you valuable information as to who nearby wants to buy the things you have to sell. Make it a point to get into touch with him regarding it.

PLANTS AND ONION SETS—PREPAID

10,000,000 frost-proof Cabbage Plants, $1.50 per 1000, 85c per 500. Strawberry Plants, $2.25 per 1000, $1.25 per 500. White Fall Multiplying Onion Sets, 35c opund. Turnip and Rape Seed, 10c ounce.

WADD BUNTIN, Seed Farms, STARKVILLE, MISS.

New Poultry & Field Fence Book. 150 Styles
Direct From Factory Prices-Freight Paid
HEAVY DOUBLE GALVANIZED Wires. Outlast chicken netting 5 to 1—costs less. Get free Book and sample to test. **Address Dept. 37**
The Brown Fence & Wire Co., Cleveland, Ohio

MASON'S MOVABLE POULTRY YARDS

All Steel. Comes Complete--Fence, Posts, Gate--Everything ready to put in place. Easy to put up and take down. Any size wanted.
SOLD ON A SIXTY DAY'S FREE TRIAL.
The prettiest and most durable yard you can buy. Send for Catalog and Low, Direct Factory Prices.
MASON POULTRY FENCE CO., Box 43 LEESBURG, O.

SUPERIOR SANITARY LAUNDERING

THE ORIGINAL
Parcel Post Laundry

WRITE FOR INFORMATION

The ORIGINAL PARCEL POST LAUNDRY LOUISVILLE, KY.

THE POSTAGE WE PAY ANYWHERE IN THE U.S.A.

MAIN OFFICE: 628 W. JEFFERSON ST., LOUISVILLE, KY.

Original and *up-to-date*, of progressiveness we boast,
Since we first employed your *Uncle Sam* with his *Parcel Post;*
Our *Sanitary* work will bring a smile--make happiness complete,
It's *Guaranteed.* We *Return* it *Prompt*, packed secure and neat.
Bnodles fifty cents or over, the *Postage Both Ways* we pay,
Write for Information (or better still). *Send a Trial Bundle Today;*
Charge Accounts are opened to parties with reference,
Tried once, this *Laundry* will always be your preference.

Just say you saw it in THE INDUSTRIOUS HEN.

More Sheep—More Wool.

The More Sheep—More Wool Association of the United States has now been completely organized. It will take over and continue the work for the encouragement of sheep husbandry which was inaugurated by the Philadelphia Wool and Textile Association and which has been conducted by them for the past two years. It is the purpose of the new association to encourage in all legitimate ways the development of sheep husbandry and obtain co-operation for this purpose to the widest extent possible. The membership is composed of large business organizations, will have ample financial support from them and will be in a position to broaden the effort for the restoration of the sheep industry.

Mr. A. C. Bigelow, who has previously directed the sheep campaign has been elected president of the More Sheep—More Wool Association of the United States and will direct its activities. All communications on this subject should now be addressed to him at 53 South Front street, Philadelphia, Pa.

Foster's S. C. White Leghorns.

P. M. Foster, Athens, Tenn., has made a splendid record at the recent Chattanooga and Knoxville shows. At Chattanooga on two entries he won first and third cockerels. At Knoxville he won first and fourth pullet, second and third cockerel, second hen and fifth pen. All of the winnings were made in strong competition. Look up his advertisement in this issue and write him for prices on stock and eggs.

A Word of Warning.

Editor Industrious Hen,
Louisville, Ky.

Dear Sir: A word of warning. I have been in the poultry business sixteen years, and have never seen a time when male birds could not be had in plenty, and at a reasonable price; but this is unlike any season we have passed. Believe me or not, but I want to drop a word of warning to the breeders who are expecting to purchase male birds later, better find out now where you are going to get them. The extreme high prices for all feedstuffs and the high prices for all meats has caused all breeders to carry over a much fewer number of male birds than usual. You can not afford to inbreed unless you are really line-breeding, and you cannot afford to have poor fertility on account of not enough male birds. Better look out now. A. J. LAWSON,

Proprietor White Hill Poultry Farm.
Cleveland, Tenn.

Artistic Homes
—a 1000-page plan book, $1—

Over 2000 house-plans and designs

A thick, well printed heavy-set book.
NEW EDITION

Sent post-paid for one dollar

Library Ed. board back in red and gold

Bungalow Book, 25c
Portab. house folder, 2c.
SEND NOW

—let ONE-DOLLAR-BILL bring ARTISTIC HOMES to you—"there's no place like home"

All home-builders need 1000-page book for style and guide, especially if cheap mill-plans are contemplated.

HERBERT C. CHIVERS
124 N. 7th ST. **ARCHITECT** SAINT LOUIS

WHITE WYANDOTTES "DIXIEDOTTE STRAIN"

Do you want WINNERS and LAYERS. If so write us. Dixiedottes are better than ever on their new 1000 acre farm. We also breed as good Hereford cattle, Duroc hogs and Airedale Terrier dogs. Write us your wants.

AXSONIA STOCK FARM
Carrington Jones in Charge
Route No. I, Capleville, Tenn.

The Answer!

The BUCKEYE Incubator Hatches More and Better Chicks

The STANDARD Colony Brooder Raises Every Raisable Chick

Your country needs meat. You need it. The supply is low and getting lower. Poultry alone can be raised quickly.

The Buckeye Incubator and Standard Colony Brooder make profitable poultry raising certain. There's no guess work about it. They are guaranteed to do it.

Given good hatchable eggs--the Buckeye will bring out the full hatch of strong chicks the first time, and every time. Under a Standard Colony Brooder, 95 out of every 100 can be raised to marketable maturity.

BUCKEYE THE PERFECT INCUBATOR

Built *up* to a standard-not *down* to a price. Up to a standard of correct principles and performance, Up to a standard that makes good our sweeping

BUCKEYE GUARANTEE

The Buckeye is guaranteed to hatch more chicks and stronger chicks than any other incubator; to operate satisfactorially in any temperature down to freezing; to require no artificial moisture and no attention to the regulator from the time the hatch is started until it is finished. Any Buckeye that fails to meet this guaranty will be taken back any time within 40 days.

Buckeye claims are backed up by more than half a million satisfied users--big and little.

STANDARD Colony Brooder

Makes three chicks grow where one grew before. Practically eliminates brooder losses. Cuts cost of operation to less than half; labor to less than a fourth. Broods 100 to 1000 chicks at a cost of less than 6 cents a day. Self-feeding, self-regulating. Safe, sanitary, simple, certain of results--so certain that we let you

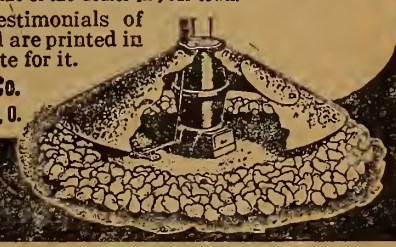
WRITE YOUR OWN GUARANTEE

You know what you want a brooder to do. Write it all down. We'll sign it. If the Standard doesn't fulfill your own guaranty completely the first time you try it, we'll send your money back.

Over 6000 dealers sell the Buckeye Incubator and the Standard Colony Brooder and are glad to show them in operation. Let us send you the name of the dealer in your town.

Most Wonderful testimonials of success you ever read are printed in our new catalog. Write for it.

The Buckeye Incubator Co.
56 Euclid Ave. Springfield, O.



Improved OK Poultry Fountain

This improved fountain insures warm water all day long. Better for your flock—cheaper for you because it saves time and trouble. Made in three sizes—one suited to your needs.

One gallon size, $2 Two gallon size, $2.50 Four gallon size, $3.25

Send for the Booklet of Oakes Poultry Supplies

Oakes Mfg. Company, 341 Dearborn St., Tipton, Ind.

Incubator and Brooder Supplies. Fixtures and Repairs. All metal parts for making new machines or repairing old ones.

EASTERN BRANCH, 303 PEARL ST., N. Y.

S. C. Rhode Island Reds Winners at Kentucky State Fair and Louisville Armory Show, 1917. Eggs $1.50 per 15. Satisfaction guaranteed. Address,

W. A. RAMSEY, R. No. 11, Buechel, Ky.

WONDERFUL EGG PRODUCER.

Any poultry raiser can easily double his profits by doubling the egg producing of his hens. A scientific tonic has been discovered that revitalizes the flock and makes hens work all the time. The tonic is called "More Eggs." Give yours hens a few cents' worth of "More Eggs" and you will be amazed and delighted with results. A dollar's worth of "More Eggs" will double this year's production of eggs, so if you wish to try this great profit-maker, write E. J. Reefer, poultry expert, 4999 Reefer Bldg., Kansas City, Mo., who will send you a season's supply of "More Eggs" Tonic for $1.00 (prepaid). So confident is Mr. Reefer of the results that a million-dollar bank guarantee if you are not absolutely satisfied your dollar will be returned on request and the "More Eggs" cost you nothing. Send a dollar today or ask Mr. Reefer for his free poultry book that tells the experience of a man who has made a fortune out of poultry.

Form the Buttermilk Habit.

"Drink buttermilk freely," says the U. S. Food Administration in its effort to encourage the use of dairy by-products. The use of buttermilk is largely a matter of habit. Southern cities consume almost as much buttermilk as sweet milk. The difficulty of keeping milk sweet has been largely responsible for the popularity of buttermilk as a beverage.

RAISE RABBITS Regular meat machines. OUR BOOK BELGIAN HARE GUIDE Tells all about them. Over 75000 copies sold. Price 25c. Free sample copy of our paper goes with BOOK. Address INLAND POULTRY JOURNAL, 213 Cord Bldg., Indianapolis, Indiana.

CAM-OU-FLAGE

Talk about deception! The best example of perfect **Camouflage** is the incubation egg. The eye is deceived and no light can reveal its unfitness. But leave it to the Magic Egg Tester **to pick out the good eggs for hatching.** Every poultry raiser should use it. The only **sure** way to **start right.** We have sold the Magic Egg Tester for six years. Sent Parcel Post, C. O. D $2.00 each.

Bruce Poultry & Seed Co., New Orleans, La.

Just say you saw it in THE INDUSTRIOUS HEN.

This department is conducted by Mrs. J. C. Shofner, Mulberry, Tenn., and any questions that you wish to ask will be answered through this department if addressed to Mrs. Shofner. If personal reply is wanted enclose a stamped envelope.

DISEASES OF TURKEYS.

Turkeys are subject to most of the diseases and ailments affecting fowls. Of these the most common diseases are blackhead, chickcnpox (sore head) and roup. Limber ncck and impaction of the crop are noninfectious ailmcnts quite oftcn found among turkcys.

Of the parasites lice are the most injurious, especially among young turkcys, and unless some effective means has been taken to destroy them they can usually be found on every turkey in the flock.

Blackhead.

Of the infectious diseases, blackhead is the most destructive among turkeys. This disease first became serious in the New England States many ycars ago; it is now found to a greater or less extent throughout the middle West and occasionally in the South and on the Pacific coast. It is notable that whenever the climate and range conditions are such as to permit of the turkeys foraging for most of their feed from the time they are hatched until they arc marketed, cases of blackhead are infrequent. Blackhead occasionally affects grown turkeys, but it mostly occurs among young turkcys bctwccn the ages of six weeks and four months.

Thc smyptoms of blackhead arc such that unless the bird is killed and an examination of the internal organs madc it is difficult to tcll whethcr the disease is blackhcad or some other ailment. The bird drinks a great deal, but refuses to eat and grows steadily weakcr until its dcath, which usually occurs a fcw days or a week after thc sickness is first notcd. Diarrhca commonly occurs and the droppings vary in color from white to brown, but are usually a bright yellow. The hcad of the turkey sometimes turns dark and it is from this symptom that thc name blackhead originatcd; this is an unfortunate tcrm, as thc hcad oftcn does not turn dark and evcn though it docs it mcrcly indicates that thc bird is sick from somc ailment that may or may not bc blackhcad. On opening a turncy that has died of blackhcad, onc or both of thc ccca or "blind guts" are found to be enlargcd and plugged with a chccsy material and thc liver is more or lcss covercd with spots varying in color from grayish whitc to yellow.

No positive curc for blackhead has bccn found. As in thc casc of all other infcctious discases the sick bird should immediately bc rcmoved from the flock to prcvcnt a further spread of thc diseasc, and if very sick it is bcst to kill it and burn the body. Clean out the roosting placc and sprcad limc in places most frequcnted by the turkeys. Keep a disinfectant in the drinking water; potassium permanganate is most often used, a sufficient quantity of the crystals being added to give the water a wine color, which, for every gallon of water, will take about as much of the chemical as can be placed on a dime. If the turkeys are being fed heavily, their ration should be reduced, as overfeeding predisposes to the disease. The feeding of sour milk has been found of advantage in keeping turkeys in good health and in reducing the activities of the organism causing blackhead. Free range and care not to overfeed are most important.

Lice.

Lice are among the most important causes of the high mortality among young poults, those badly infested becoming gradually weaker and weaker until they die. Head lice cause most of the trouble and are found close to the skin upon the top of the head, above and in front of the eyes and under the throat. Small white lice are also found along the wing bar among the quills of the feathers and occasionally are found below the vent. By dusting the hen when she is set with some good lice powder it is a very easy matter to prevent lice from getting a foothold among the poults. If this is not donc, the poults are almost certain to have lice. The poults should be examined carefully every few days and if lice are found about the head a small quantity of lard should be rubbed over the affected parts. This kills the lice by closing thcir breathing pores. The lice found among the quill feathers along the wing bar and below the vent are more active than the head lice and do not remain so close to the skin. Should body lice be found, the poults should be dusted carefully under the wings and below the vent about once a week until the pests are exterminated.

Limber Neck.

Limber neck is characterized by a paralysis of the muscles of the neck, caused by the absorption of poison from the intestines. The presence of these poisons is usually due to eating decayed meat or moldy grain, or it may be attributed to indigestion or intestinal worms. A tablespoonful of castor oil to which fifteen drops of oil of turpentine have been added should be administered.

Impaction of the Crop.

Impaction of the crop is caused by eating indigestible substances, such as feathers, and thus preventing the feed from passing through. The crop can usually be emptied by first giving a teaspoonful of sweet oil and then working the contents of the crop with the fingers up through the gullet and out of the mouth, the bird being held with its head down.—Farmers' Bulletin No. 791, United States Department of Agriculture.

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SOUTHWESTERN NOTES AND COMMENTS

By MRS. J. F. VERMILLION, Rusk, Texas.

ABOUT all we can think of at this season of the year is poultry shows, and no season in the past has had so many as this. The fall fairs are about over and the winter shows are starting in full force. Every mail brings to our desk one or more show premium lists. I note too that the regular and special prizes at nearly all shows in the Southwest are more liberal than usual. December starts off with two of the most important shows in this territory, the State Red show at Bryan and the State A. P. A. show at Amarillo; both will be held during the first week. This writer is up against a proposition. Being secretary of both the Red Club and State A. P. A., my presence is demanded at both shows, but since the day of miracles has long since passed, and I cannot be in two places at the same time, I have decided that the Red Club has prior claim on my time, so will run over to Bryan. Think the good husband will be able to lay aside his office business long enough to accompany me. Oh, yes, he is just about as much interested in Reds as I am and it certainly makes it pleasant, for even a successful business woman realizes that no "well done" is quite as cheering as that given by the partner of all our joys and sorrows.

I have never told my friends of the Southwestern department of our new daughter. Our only son and only child as well, recently married a sweet little Southern girl and we are all very much in love with her. Yes, we have decided she "will do," for she is already beginning to discuss Reds with long bodies and good wing markings. It seems only yesterday that her husband was my little boy in knee trousers helping me to select my best birds, but there are no regrets in this mother's heart.

In the recent election of officers of the Texas branch, A. P. A., the results were as follows: President, C. P. Van Winkle, Dallas; vice-president, Geo. Gray; secretary-treasurer, Mrs. J. F. Vermillion, Rusk; executive committee, W. G. Airhart, of Peniel, Ed M. Steves, of Corpus Christi, and Joe G. Hubbard. Place of holding next meeting, Amarillo. Affairs of our Texas branch have suffered such a relapse that it will be hard to revive interest and put it in anything like a healthy vigorous state; but Mr. Van Winkle will succeed if such a thing be possible and as secretary I am willing to assist in any way possible.

We know through the daily press of Texas that positive instructions have been wired from the United States Food Administrator and resolutions passed by local poultry and egg associations that no turkeys shall be dressed and shipped out of the State prior to December 1. This in order that all young stock may fully develop, by which means many, many extra pounds of meat will be available.

I have read with considerable interest the article in the November issue of one of the poultry publications entitled, "Present Dangers in the Red Fancy," and, Mr. Editor, please pardon my criticism, but really I do not think the writer of that article could have been sincere in all his remarks. A great deal of what he has to say is valuable, but some of it is misleading to the amateur breeder. I have attended many, many large shows and never yet have I seen the blue or red ribbon placed upon a bird ever bordering on mahogany. All judges and experienced breeders demand an even shade of dark rich red but always it must be brilliant red. It is an undeniable fact that a bird, particularly a male bird, that is barely of standard weight is usually passed up by the judges for one of overweight, all other qualities being equal. I myself was once fearful of the result of breeding too much for size, but I truthfully declare, as the years go by and I have bred more and more for the large-bodied, big-boned type, that the production of eggs has not been lessened. In fact I find invariably that the big-boned vigorous seven and one-half or eight pound hen will continue to lay right along through a hard cold winter (and that is the time we want them to make good) when a smaller hen would take a vacation until more favorable weather conditions come. I am not writing this to advertise my average 275-egg strain for I have never been able to establish such a record, but am simply writing in defence of the larger Red. Of course it requires careful study of our matings year in and year out to produce the larger bird and maintain the desired egg yield, just as surely as it does to produce the dark even red plumage; but what good is there in this life worth winning that is not difficult to obtain?

The above photograph will give our readers some idea of the laying quality of Mapleside Barred Rocks. Mr. Mittendorff, the proprietor, informs us that fully 80 per cent of all females on hand January 1, 1917, averaged 201 eggs each. This should be positive proof that they are not slackers.

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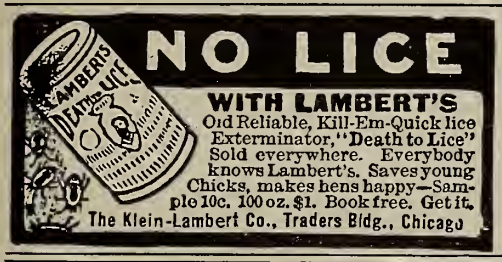

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